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22 March 2005 (22.03.2005)

IMPORTANT NOTIFICATION

16. NOV. 2006

COHAUSZ & FLORACK

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ALLEMAGNE

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OR CHAPTER II

OF THE PATENT COOPERATION TREATY) (PCT Rules 44bis.3(c) and 72.2)

Transmittal of the translation to the applicant.

Date of mailing (day/month/year) 09 November 2006 (09.11,2006) Applicant's or agent's file reference

040260WO* International application No. PCT/EP2005/003023

International filing date (day/month/year)

To

Applicant

HYDRO ALUMINIUM DEUTSCHLAND GMBH et al

	••
V	The International Bureau transmits herewith a copy of the English translation of the international preliminary report on pasentability (Chapter I).
	The International Bureau transmits berewith a copy of the English translation of the international preliminary report on patentability (Chanter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or ejected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any amnexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

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PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

See item 4 below

Priority date (day/month/year) 24 March 2004 (24.03.2004)

FOR FURTHER ACTION

International filing date (day/month/year) 22 March 2005 (22.03.2005)

International Patent Classification (8th edition unless older edition indicated)

Applicant's or agent's file reference 040260WO*

Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

See relevant information in Form PCT/ISA/237

International application No. PCT/EP2005/003023

MYDI	TY DRO ALUMINIUM DEUTSCHLAND GMBH									
1.	. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).									
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.									
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.									
3.	This report contains indications	relating to the following items	s:							
	Box No. I	Basis of the report								
	Box No. II	Priority ·								
	Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial							
	Box No. IV	Lack of unity of invention								
	Box No. V	Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement								
l	Box No. VI	Certain documents cited								
	Box No. VII	Ccrtain defects in the inter	international application							
	Box No. VIII	Certain observations on th	e international application							
4.	The International Bureau will c not, except where the applicant date (Rule 44bis .2).	ommunicate this report to desi makes an express request und	ignated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but or Article 23(2), before the expiration of 30 months from the priority							
			Date of issuance of this report 01 November 2006 (01.11.2006)							
	The International Bur		Authorized officer							
1	34, chemin des Co 1211 Geneva 20, S		Ellen Moyse							

e-mail: pt05@wipo.int

PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) See form PCT/ISA/210 Date of mailing (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference 040260WO* See paragraph 2 below Priority date (day/month/year) International filing date (day/month/year) International application No. 22.03.2005 24.03.2004 PCT/EP2005/003023 International Patent Classification (IPC) or both national classification and IPC C22F1/00, C22F1/04, C21D1/46, C21D1/78 Applicant HYDRO ALUMINIUM DEUTSCHLAND GMBH This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(u)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Certain observations on the international application Box No. VIII FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPBA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/EP

Telephone No.

Facsimile No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/003023

Box	No. I	Basis of this opinion
1.	With filed	regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed attion, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/fumishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.	Ц	In addition, in the case that more than one version or copy of a sequence listing and/or table(x) relating thereto has been filled or furnished. the required statements that the information in the subsequence additional copies is identical to that in the application as filled or does not go beyond the application as filled, as appropriate, were furnished.
4.	Add	didonal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/003023

Box		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement				
	Novelty (N)		Claims	1-11	YES
			Claims	Account to the second s	NO
Inventive step (IS)		p (IS)	Claims	1-11	YES
			Claims	Maria de la companya	NO
	Industrial applicability (IA)		Claims	1-11	YES
			Claims		NO

- 2. Citations and explanations:
 - 1. Reference is made to the following documents:
 - D1: US-A-4 968 358 (PELLMAN ET AL) 6 November 1990 (1990-11-06)
 - D2: HILL H N ET AL: "THE THERMO-MECHANICAL METHOD FOR RELIEVING RESIDUAL QUENCHING STRESSES IN ALUMINIUM ALLOYS" TRANSACTIONS OF THE AMERICAN SOCIETY FOR METALS, XX, US, vol. 52, 1959, pages 657-674, XPO08049567 ISSN: 0096-7416
 - 2. Document D1 is considered to be the closest prior art. It discloses (the references between parentheses relate to said document):

A method for the heat treatment of aluminium workpieces, comprising the following handling steps [columns and 7-81:

- solution annealing with subsequent quenching in water
- immersion in liquid nitrogen, until an equilibrium temperature is reached
- heating up in a steam bath of a fluorochemical compound to a temperature below the ageing temperature of the alloy.

The subject matter of claim 1 differs from this in that

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement

the heating-up operation takes place in a salt melt, with the result, according to the invention, that high heating-up rates and high process efficiency are achieved.

2.1 The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The problem addressed by the present invention can therefore be considered that of deriving an alternative "up-hill" heat treatment method with high heating-up rates and good process efficiency.

2.2 The solution to this problem that is proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons:

The prior art does disclose heating-up trials with a salt melt [see D2, page 660, page 665]. However, these are not deemed to be advisable on account of the contact of the salt melt with the frozen component surface and the low heating-up rate. It must be assumed that these problems can be overcome with the composition of the salt bath that is presented in the description.

The use of a salt melt in the so-called "up-hill" heat treatment method is consequently neither feasibly disclosed nor suggested by the prior art. The subject matter of claim 1 accordingly involves an inventive step.

2.3 Claims 2 to 11 are dependent on claim 1 and consequently likewise meet the PCT requirements for novelty and inventive step.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2005/003023

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

It is evident from the description on page 6 that a specific concentration and composition of the salt melt are necessary to achieve the high thermal conductivity required for the invention.

Since independent claim 1 does not include these features, it does not meet the requirement of PCT Article 6 in conjunction with PCT Rule 6.3(b) that any independent claim must include all the technical features that are essential for the definition of the invention.